



Serial No.: Filed herewith  
 Confirmation No.: Not known  
 Applicant: FREEMAN, Neville J. et al.  
 Atty. Ref.: 13485.0004.NPUS00

1  
 Convention to United Kingdom Patent Application Number 9922601.1, filed 24 September 1999.

IN THE CLAIMS:

Please cancel without prejudice claim 25.

Please amend the claims 5, 6, 7, 10, 11, 13, 15, 17, 22, 24, and 26 in the following manner:

5. (Amended) A device as claimed in claim 1 wherein the planar optical component is a sensor.

6. (Amended) A device as claimed in claim 5 wherein the sensor is mounted on a sensor base and is in intimate thermal contact therewith.

7. (Amended) A device as claimed in claim 1 wherein the optical assembly and inner temperature controller are contained within a conducting sleeve.

10. (Amended) A device as claimed in claim 8 wherein the heat shroud comprises an integral laser module holder for inserting a laser module.

11. (Amended) A device as claimed in claim 3 further comprising a Peltier exhaust assembly which permits thermal transfer from an exhaust side of the inner Peltier to the environment.

13. (Amended) A device as claimed in claim 11 wherein the Peltier exhaust assembly comprises: means for thermally contacting the inner Peltier assembly with the exhaust plate.

15. (Amended) A device as claimed in claim 11 wherein the Peltier exhaust assembly comprises: an exhaust guide capable of fitting over the insulating collar of a laser module.



Serial No.: Filed herewith  
 Confirmation No.: Not known  
 Applicant: FREEMAN, Neville J. et al.  
 Atty. Ref.: 13485.0004.NPUS00

*Q6*  
 17. (Amended) A device as claimed in claim 1 further comprising: an outer temperature controller which permits coarse temperature control of one or more of the group selected from the conducting sleeve, laser module, laser-module holder, the exterior parts of the optical assembly and the electronics.

*Q7*  
 22. (Amended) A device as claimed in claim 1 which is capable of sequential construction from a plurality of discrete assemblies, said assemblies being:  
 an optical assembly contained within a conducting sleeve;  
 an inner Peltier assembly comprising an inner Peltier; and  
 a Peltier exhaust assembly, wherein: (1) the inner Peltier assembly is housed within the cavity of the optical assembly so as to achieve intimate thermal contact with the planar optical component and (2) the Peltier exhaust assembly permits thermal transfer from the exhaust side of the inner Peltier to the environment and is thermally isolated from the conducting sleeve.

*Q8*  
 24. (Amended) A device as claimed in claim 1 wherein the planar optical component has a plurality of waveguides.

*Q9*  
 26. (Amended) A process for constructing a device as defined in claim 1, the process comprising the steps of:  
 inserting an optical assembly in a conducting sleeve comprising an integral laser module housing;  
 inserting a laser module into the laser module housing;  
 housing an inner Peltier assembly in the cavity of the optical assembly so as to achieve thermal contact with the planar optical component ;  
 positioning a Peltier exhaust assembly in thermal isolation from the conducting sleeve so as to permit thermal transfer from the exhaust side of the inner Peltier to the environment.

\*\*\*\*\*